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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/786,227	02/26/2004	Raymond Tan Boon Size	SN-US045016	9186
22919 7590 12/29/2006 GLOBAL IP COUNSELORS, LLP 1233 20TH STREET, NW, SUITE 700 WASHINGTON, DC 20036-2680			EXAMINER CHARLES, MARCUS	
			ART UNIT 3682	PAPER NUMBER
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		12/29/2006	PAPER	

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

**Office Action Summary**

Application No.

10/786,227

Applicant(s)

SZE ET AL.

Examiner

Marcus Charles

Art Unit

3682

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 26 February 2006.  
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-28 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☒ Claim(s) 16-28 is/are allowed.  
6) ☒ Claim(s) 1 and 4-15 is/are rejected.  
7) ☒ Claim(s) 2 and 3 is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.  
10) ☒ The drawing(s) filed on 16 June 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 03-10-2004.  
4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.  
5) ☐ Notice of Informal Patent Application  
6) ☐ Other: \_\_\_\_\_.

### **DETAILED ACTION**

This is the first action relating to serial application number 10/786,227 filed 02-26-2004.

Claims 1-28 are currently pending.

#### ***Drawings***

1. The examiner has accepted the drawing filed with this application as formal drawing.

#### ***Specification***

2. The disclosure is objected to because of the following informalities: in page 10, paragraph [005], end of line 2, "busing" should be --bushing--.

Appropriate correction is required.

#### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by JP (60-195287). JP (60-195287) discloses a rear derailleur as claimed by the present invention, including outer and inner chain guides (9/10), each of the chain guides has an attachment end and a free end, a guide pulley (11) between the inner and outer plates, a tension pulley (12) rotatable coupled between the inner and outer plates at the free ends, the tension pulley has an annular recess disposed about the rotational axis thereof to form a projection (see fig. 4), the inner guide plate has an outermost edge

(see 19) located in the annular recess and the projection projecting in the axial direction further from the center plane of the tension pulley that the outermost edge.

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 4-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP (60-195287) in view of JP (60-188087). JP (60-195287) does not disclose that the guide section of the inner plate includes a slope extending from the outermost edge. JP (60-188087) discloses a derailleur having an inner guide plate (10), which includes a slope extending from the outermost edge such that the slope diverges from the center plane of the tension pulley as the surface approaching the rotation axis of the pulley.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the outermost edge of the inner guide plate of JP (60-195287) so that it comprises a slope in view of JP (60-188087) in order to protect the pulley from dirt intrusion.

In claim 5, note the surface is substantially flat.

In claims 6-7, JP (60-195287) in view of JP (60-188087) inherently discloses the claimed invention.

In claims 8-11, note JP (60-195287) discloses the sloping projection as claimed (in fig. 4), wherein the projection (12) includes an inner surface that extends radially inwardly from an axially innermost end of the slop guide surface.

In claim 13, note the radial length of the recess is larger than the radial height of the guide section (19) of the inner guide plate.

In claim 15, it is apparent that the projection of the tension pulley of JP (60-195287) includes an annular projecting member extending about the rotation axis.

7. Regarding claim 12, JP (60-195287) fails to disclose the percentage of the radial length of the inner guide plate to that of the overall width of the tension pulley. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to provide an inner guide plate that has at least about 25% of an overall width of the tension pulley, since it has been held that discovering an optimum value of a result effect variable involves only routine skill in the art. *In re Boesch*, 617 F.2<sup>nd</sup> 272, 205 USPQ 215 (CCPA)

8. Regarding claim 14, JP (60-195287) does not disclose the projection includes a plurality of separate projecting member. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the single projection structure into separate projecting members, since it has been held that constructing a formerly integral structure in various elements involves routine skill in the art. *Nerwin V. Erlichman*, 168 USPQ 177, 179.

***Allowable Subject Matter***

9. Claims 16-28 are allowed.

Art Unit: 3682

10. Claims 2-3 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Citation***


11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Shimano (4,410,313), Nagano (4,575,365), FR (2637249), disclose a derailleur having an inner guide plate and tensioning pulley with a recess and projection. EP (0461053) discloses a derailleur having an inner guide plate than has a section protecting hub section passing through the tensioner pulley.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marcus Charles whose telephone number is (571) 272-7101. The examiner can normally be reached on Monday-Thursday 7:30 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ridley Richard can be reached on (571) 272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

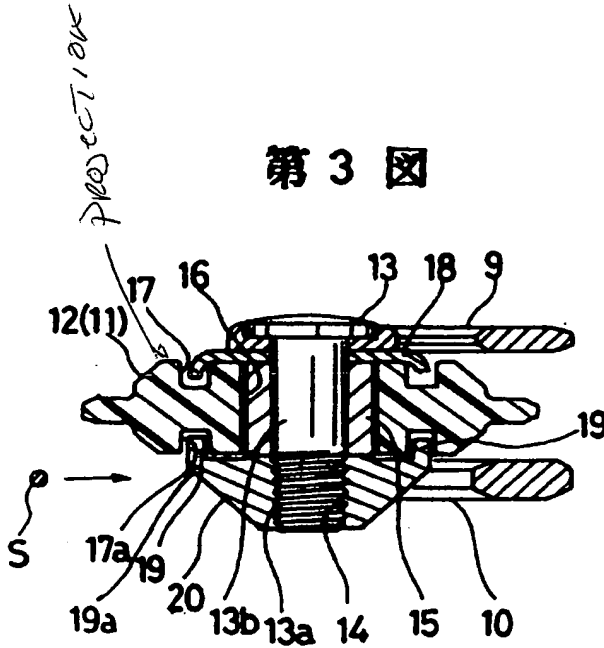
Art Unit: 3682

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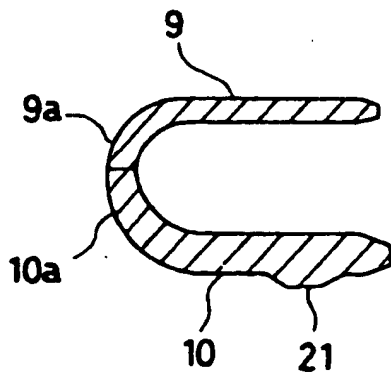
  
Marcus Charles  
Primary Examiner  
Art Unit 3682  
December 22, 2006

和 60— 195287

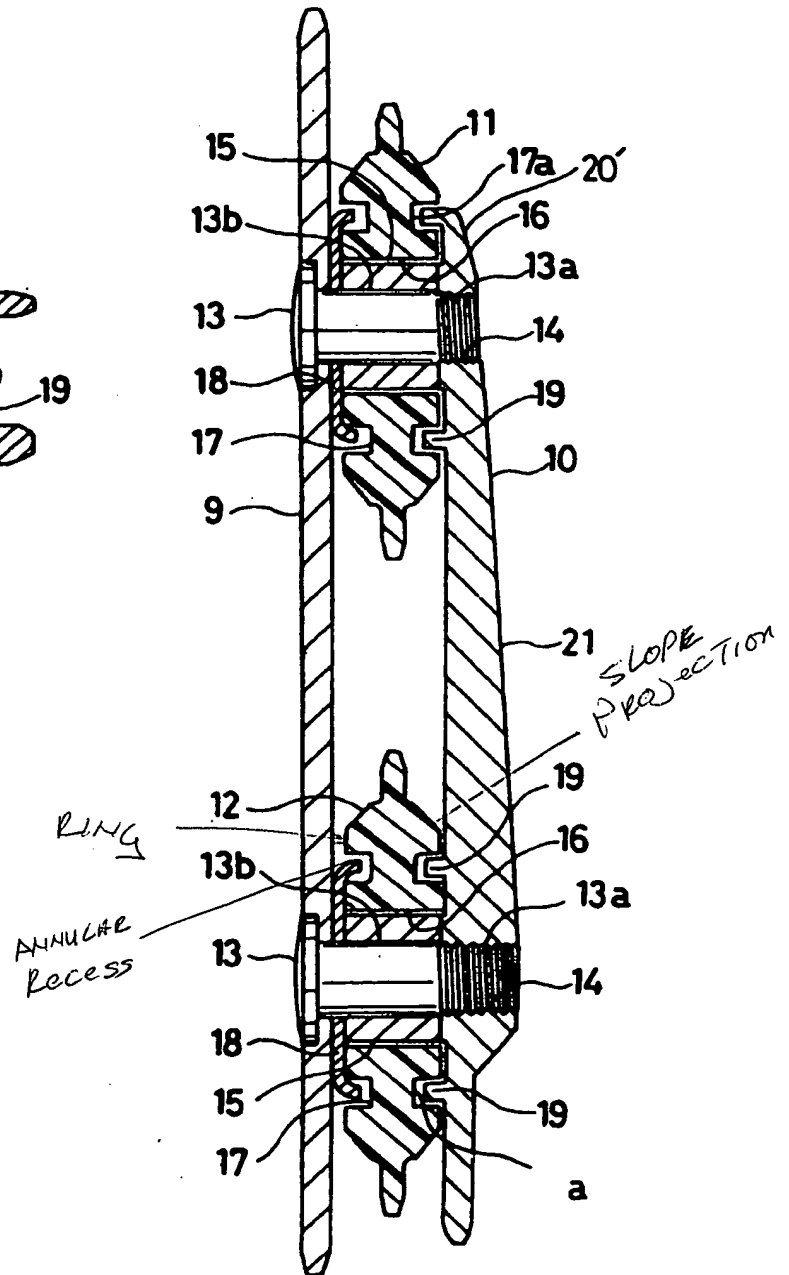
第 3 図



第 5 図



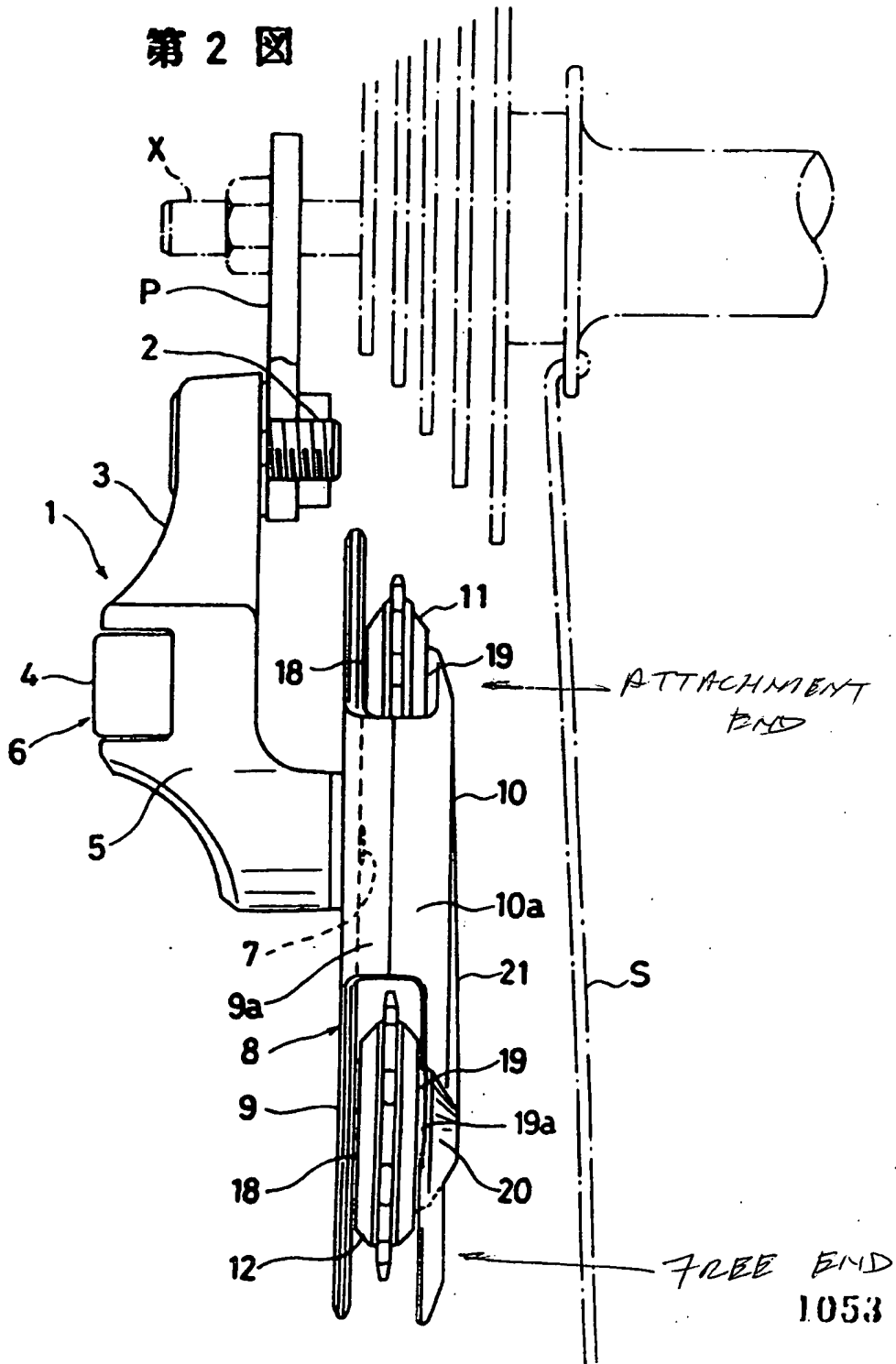
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1054



第 2 図



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